Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (original) An application specific integrated circuit (ASIC) comprising:
- a standard cell, the standard cell including a plurality of logic functions;
- at least one bus coupled to at least a portion of the logic functions;
- a plurality of internal signals from the plurality of logic functions; and
- a field programmable (FP) function coupled to the at least one bus and at least a portion of the plurality of internal signals, wherein the FP function provides access to internal signals for observation and control.
- 2. (original) The ASIC of claim 1 wherein the FP function comprises a signal connector function.
- 3. (original) The ASIC of claim 2 wherein the signal connector function comprises a first logic for providing an external I/O function and a second logic which is in communication with the first logic that selects the appropriate internal signals for external observation and control.
- 4. (original) The ASIC of claim 1 wherein the FP function includes a testing function.

2

- 5. (original) The ASIC of claim 4 wherein the testing function includes a selector function for selecting the signals of interest and a validation function coupled to the selector function for testing the signals of interest.
- 6. (original) The ASIC of claim 5 wherein the testing function includes a test program for validating at least one of the plurality of logic functions.
- 7. (original) The ASIC of claim 1 wherein the FP function includes an error recovery function.
- 8. (original) The ASIC of claim 7 wherein the error recovery function comprises determining if an error is observed, determining the error case when an error is observed and corrected.
- 9. (original) The ASIC of claim 8 wherein the error recovery function further includes writing an error code to an external system based upon the error case.
- 10. (original) The ASIC of claim 8 wherein the error recovery function utilizes a watchdog function.
- 11. (original) The ASIC of claim 9 wherein the watchdog function comprises determining after a predetermined time-period or number of actions if a portion of the ASIC is operating properly, and invoking an error-handling process if the portion is not operating properly.

Attorney Docket: RPS920010128US1/2281P

12. (original) The ASIC of claim 1 wherein the FP function comprises a field programmable gate array function.

- 13. (currently amended) A method for providing a testing function in an application specific integrated circuit (ASIC), the ASIC including a standard cell, the standard cell including a plurality of logic functions, the method comprising the steps of:
- (a) providing a field programmable (FP) function in the ASIC <u>for monitoring</u> internal signals from the plurality of logic functions for observation and control; and
 - (b) providing a test program in the FP function.
- 14. (original) The method of claim 13 wherein the test program validates at least one of the plurality of logic functions.
- 15. (currently amended) A method for allowing an application specific integrated circuit (ASIC) to operate after an error has occurred therein, the ASIC including a standard cell, the standard cell including a plurality of logic functions, the method comprising the steps of:
- (a) providing a field programmable (FP) function in the ASIC <u>for monitoring</u> internal signals from the plurality of logic functions for observation and control; and
 - (b) providing an error recovery function within the FP function.

4

Attorney Docket: RPS920010128US1/2281P

16. (currently amended) The ASIC method of claim 15 wherein the error recovery function comprises determining if an error is observed, determining the error case when an error is observed and corrected.

- 17. (currently amended) The ASIC method of claim 16 wherein the error recovery function further includes writing an error code to an external system based upon the error case.
- 18. (currently amended) The ASIC method of claim 16 wherein the error recovery function utilizes a watchdog function.
- 19. (currently amended) The ASIC method of claim 18 wherein the watchdog function comprises determining after a predetermined time-period or number of actions if a portion of the ASIC is operating properly, and invoking an error-handling process if the portion is not operating properly.